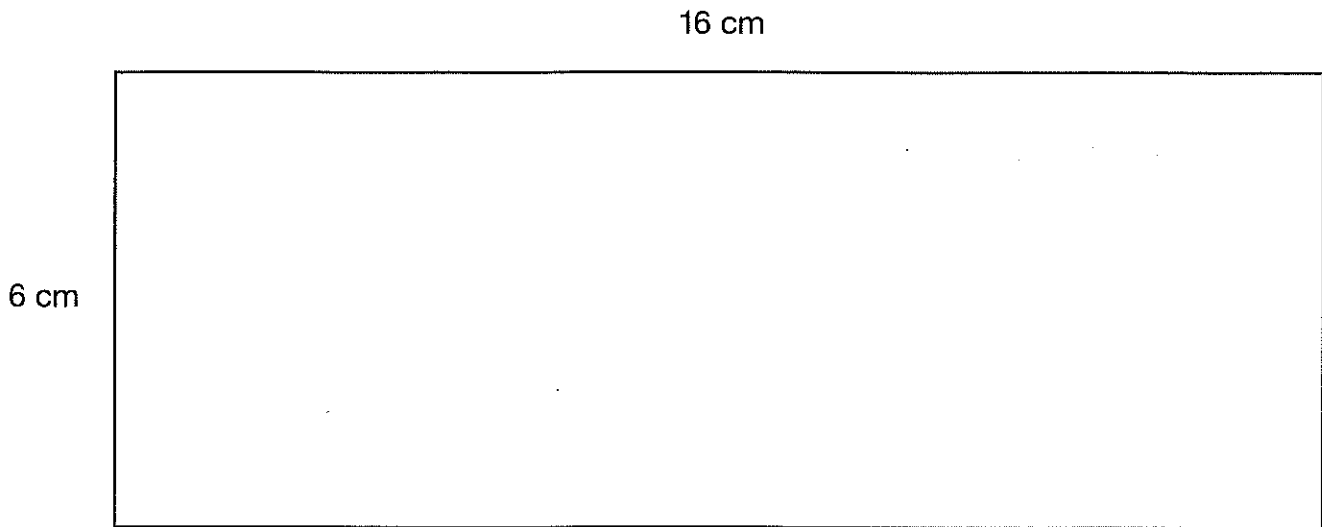


Separating Shapes

1. Draw 2 lines.

Separate the shape into 2 congruent triangles and 1 rectangle.

The area of Rectangle C must be twice the area of Triangle A or Triangle B.



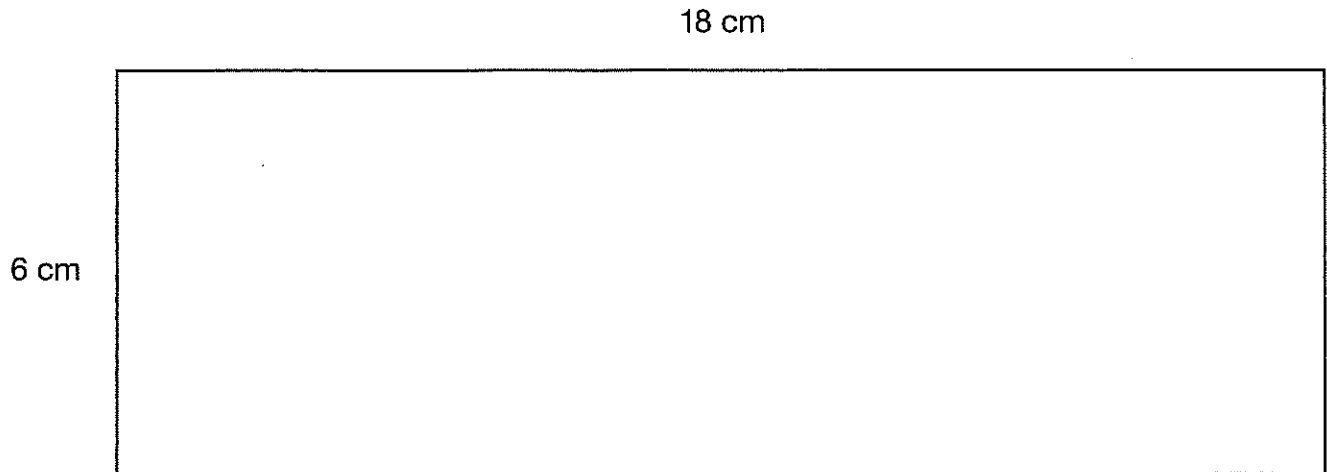
2. The area of Rectangle C is _____ sq cm.
3. The area of each triangle is _____ sq cm.

Separating Shapes

1. Draw 3 lines.

Separate the shape into 1 rectangle and 4 congruent triangles.

The area of Rectangle A must be $\frac{2}{3}$ the area of the original rectangle.



2. The area of Rectangle A is _____ sq cm.
3. The area of each triangle is _____ sq cm.

Separating Shapes 4

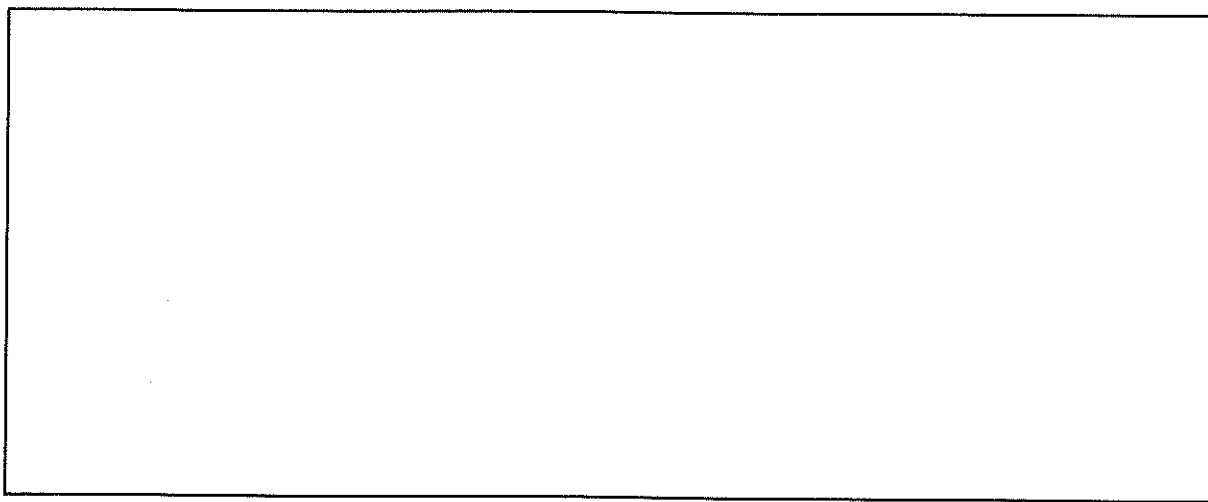
1. Draw 2 lines.

Separate the shape into 1 rectangle and 2 congruent triangles.

The area of Triangle B must be twice the area of Rectangle A.

20 cm

8 cm



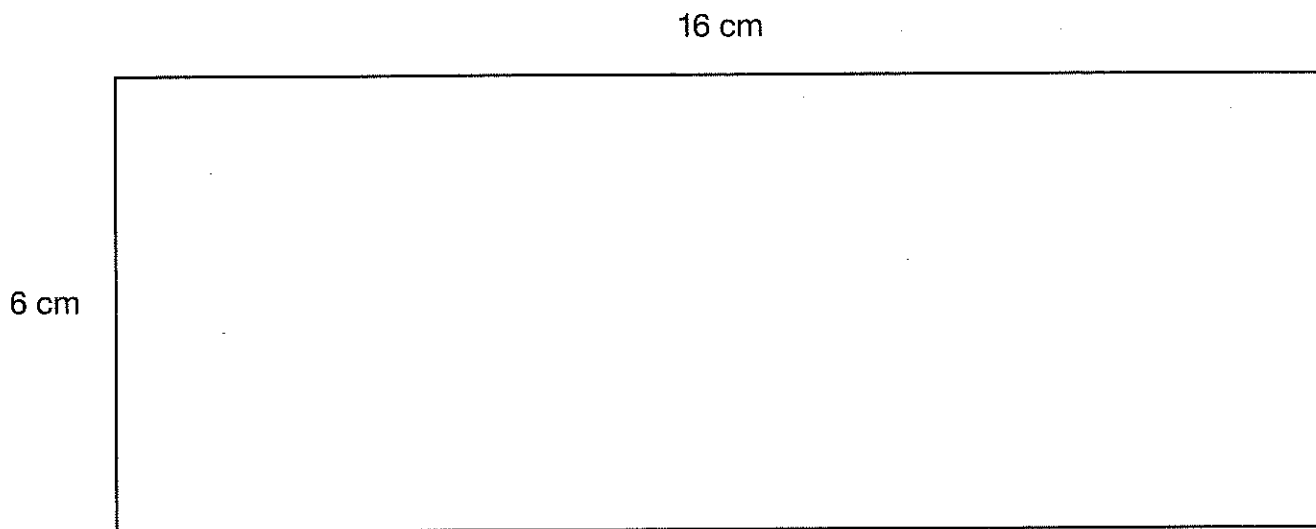
2. The area of Rectangle A is _____ sq cm.
3. The area of each triangle is _____ sq cm.

Separating Shapes 5

1. Draw 2 lines.

Separate the shape into 2 congruent triangles and 1 rectangle.

The total area of Triangle A and Triangle B must be 5 times the area of Rectangle C.



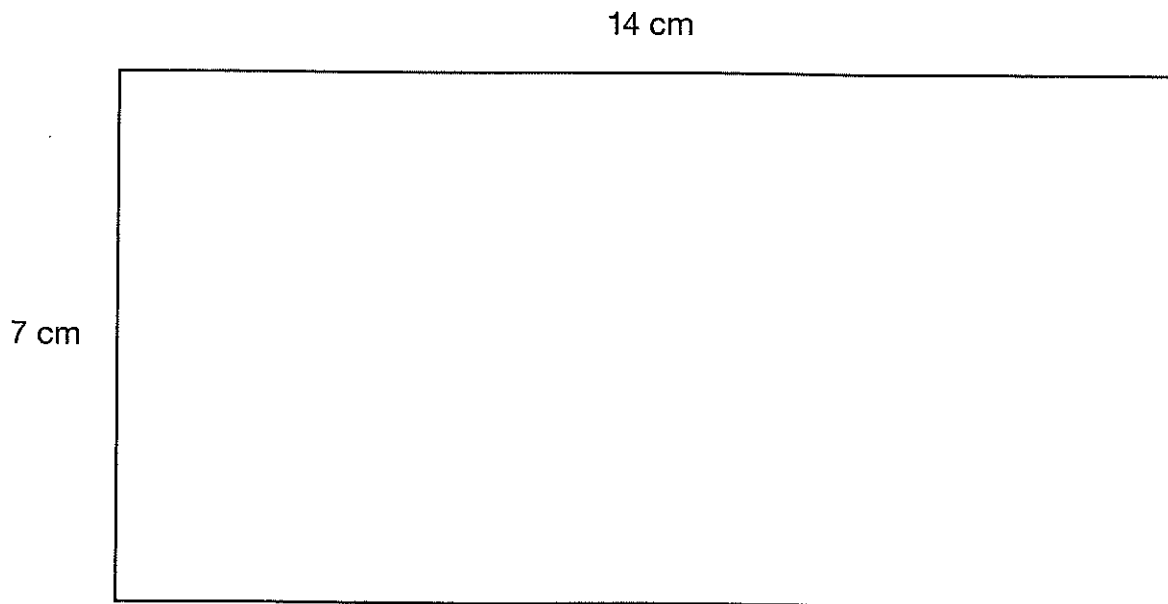
2. The area of Rectangle C is _____ sq cm.
3. The area of each triangle is _____ sq cm.

Separating Shapes

1. Draw 2 lines.

Separate the shape into 2 congruent triangles and 1 rectangle.

The area of Rectangle C must be 1.5 times the area of Triangle A or Triangle B.

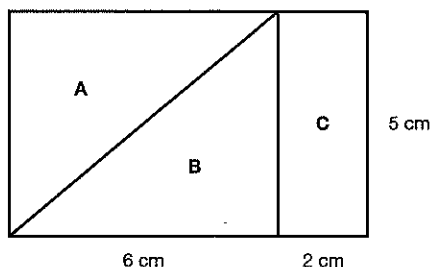


2. The area of Rectangle C is _____ sq cm.
3. The area of each triangle is _____ sq cm.

Solutions

Separating Shapes 1

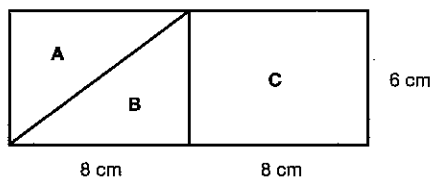
1. Possible answer:



2. 10
3. 15

Separating Shapes 2

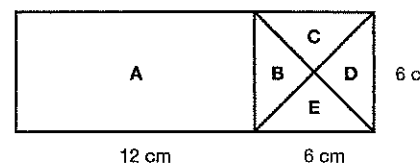
1. Possible answer:



2. 48
3. 24

Separating Shapes 3

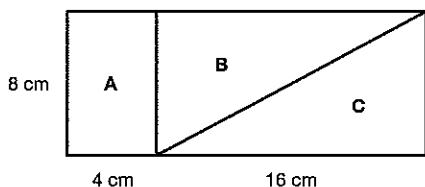
1. Possible answer:



2. 72
3. 9

Separating Shapes 4

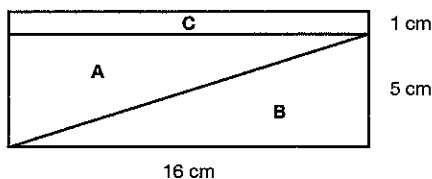
1. Possible answer:



2. 32
3. 64

Separating Shapes 5

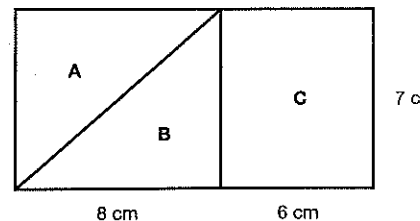
1. Possible answer:



2. 16
3. 40

Separating Shapes 6

1. Possible answer:



2. 42
3. 28